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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/612,405	07/03/2003		Hiroshi Watanabe	016907-1569	3582	
22428	7590	05/18/2005		EXAMINER		
FOLEY AN	D LARI	ONER	NOLAN JR, CHARLES H			
3000 K STRE	ET NW		ART UNIT	PAPER NUMBER		
WASHINGTO	ON, DC	20007	2854			

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Act	ion Summary	Part of Paper No./Mail [	Date 051505			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing  3) Information Disclosure Statement(s) (PT Paper No(s)/Mail Date 7/3/03; 1/13/	O-1449 or PTO/SB/08)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO- 	.152)			
2. Certified copies of the 3. Copies of the certified application from the little attached detailed Off	I copies of the priori nternational Bureau	ty documents have been (PCT Rule 17.2(a)).	n received in this National S	Stage			
a)⊠ All b)□ Some * c)□. No 1.⊠ Certified copies of the	priority documents						
12)⊠ Acknowledgment is made of		priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
Priority under 35 U.S.C. § 119							
Replacement drawing sheet(s)  11) The oath or declaration is ob	including the correction	on is required if the drawing	g(s) is objected to. See 37 CFI	` ,			
10)⊠ The drawing(s) filed on <u>03 J</u> Applicant may not request that	<u>uly 2003</u> is/are: a)∑	☐ accepted or b)☐ obje	•				
Application Papers  9) The specification is objected	to by the Examiner						
8) Claim(s) are subject	to restriction and/or	election requirement.					
7) Claim(s) is/are object							
5) Claim(s) is/are allow 6) Claim(s) <u>1-24</u> is/are rejected							
4a) Of the above claim(s) 25	<del></del>	n from consideration.					
4)⊠ Claim(s) <u>1-31</u> is/are pending	. , ,						
Disposition of Claims							
closed in accordance with t	he practice under Ex	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
, , ,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
2a)☐ This action is <b>FINAL</b> .		action is non-final.	<del></del>				
1)⊠ Responsive to communicati	on(s) filed on 03 Ms	erch 2005 and 20 April 2	005				
Any reply received by the Office later than thr earned patent term adjustment. See 37 CFR	ee months after the mailing						
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under th after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less to - If NO period for reply is specified above, the r - Failure to reply within the set or extended per	OMMUNICATION. e provisions of 37 CFR 1.130 of this communication. han thirty (30) days, a reply naximum statutory period wi	6(a). In no event, however, may a within the statutory minimum of th	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this cor				
Period for Reply							
The MAILING DATE of this	communication appe	Charles H. Nolan, Jr.	vith the correspondence add	Iress			
Office Action Summ	nary	Examiner	Art Unit				
		10/612,405	WATANABE ET AL	<del></del>			
		Application No.	Applicant(s)				

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of Claims 1-24 in the reply filed on 3-3-05 is acknowledged.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,4,7,10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lancaster et al. (5,760,644).

With respect to Claims 1,4, Lancaster teaches the first functional block (power supply), the second functional block (memory which stores information) in column 2, lines 25-28, , the signal line in column 2, lines 20-25 and the front page diagram and the semiconductor time switch in the Abstract and figures 2-5. With respect to Claim 7, Lancaster teaches the first input/output terminal 302 and the third functional block (-7 volts) connected to another terminal 301 of the semiconductor time switch 31' in figure 3. With respect to Claim 10, Lancaster teaches the source region (left side 50), the drain region (right side 50) formed apart from each other, the gate electrode 40 insulatively formed in a channel between the source and drain region in figure 3 and the source 302 and the drain 303 being used as two connection terminals to connect first and second functional blocks in figure 3. With respect to Claim 11, Lancaster teaches the non-

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conductive channel over time in figure 2 and the supply of charge to the gate electrode in advance in figure 3 and column 2, lines 30-37. With respect to Claim 12, Lancaster teaches the NPN junction in figure 3. With respect to Claim 13, Lancaster teaches the charges on the gate electrode 40 leak through an insulating member (dielectric) in column 2, lines 30-32.

### Allowable Subject Matter

- 4. Claims 2-3,5-6,8-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 14-24 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: The Examiner reserves comment until the entire application is in condition for allowance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles H. Nolan, Jr. whose telephone number is 571-272-2171. The examiner can normally be reached on Monday through Thursday 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 571-272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles H Nolan, Jr

Primary Examiner Art Unit 2854

CHN